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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOX'KET NO.	CONFIRMATION NO
10/615,067	07/09/2003	Toshifumi Kojima	040894-5940	7994
9629	7590 03/15/2	5	EXAMINER	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			LAM, CATHY	FONG FONG
	ON, DC 20004	: NW	ART UNIT	PAPER NUMBER
	•		1775	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		1.6						
	Application No.	Applicant(s)						
	10/615,067	KOJIMA ET AL.						
Office Action Summary	Examiner	Art Unit						
	Cathy Lam	1775						
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet w	vith the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of the will apply and will expire SIX (6) MC te, cause the application to become a	a reply be timely filed airty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 18.	<i>January 2005</i> .							
	is action is non-final.							
3) Since this application is in condition for allowa	·	•						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.						
Disposition of Claims								
4) Claim(s) 1-9 is/are pending in the application								
	4a) Of the above claim(s) <u>1-4,8 and 9</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>5-7</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/	or election requirement.							
Application Papers								
9) The specification is objected to by the Examin	ner.							
10)⊠ The drawing(s) filed on 09 July 2003 is/are: a		ected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Ints have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage						
Add a first and a								
Attachment(s) 1) Notice of References Cited (PTO-892)	4\ \[\]	Summary (DTO 442)						
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date						

I) 🔀 Notice of References Cited	(PTO-892)
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Office Action Summary

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

²⁾ Notice of Draftsperson's Patent Drawing Review (PTO-948)

³⁾ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07-09-2003</u>.

Election/Restrictions

1. Applicant's election of group I (ie. claims 5-7) in the reply filed on January 18, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 5-7 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kambe et al (US 6323439).

Kambe teaches a multilayer wiring board comprised of an insulating core layer (21,22), via holes (H1,H2,H5,H6), surface wiring layers (32,51) and additional insulating layers (41,42) (Fig. 1).

Via holes (H1,H2) are formed in the thickness direction of the insulating core layer. The via holes are plated with copper (36) (col 7 L 53-54). The via holes have diameters of 50 μ m (or less than 200 μ m) (col 7 L 50-51 & col 8 L 22-24).

Wiring layers are formed on both surfaces of the insulating core layer and on the via holes (col 5 L 5-10). A resinous filler (or plug) is filled into the plated via holes (col 10 L 23-24). An additional insulating layer (41,42) having conductive via holes are

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formed over the insulating core layer and in electrical connection with the wiring layers of the insulating core layer.

Kambe clearly teaches the structure of the present invention.

The prior art made of record and not relied upon is considered pertinent to 4. applicant's disclosure. Particularly USPN 6,810,583, USPN 6,847,527, USPN 6,790,305 and USPN 6,645,607.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (571) 272-1538. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 1775

cfl

March 10, 2005